

What is Claimed is:

1. A multicarrier modulation communication system comprising:
a plurality of subchannels; and
a plurality of margins.
2. The system of claim 1, wherein the plurality of margins are based on at least one of changes in the levels of a crosstalk, impulse noise, temperature changes, wire line length, radio frequency interference, a bit error rate, a signal to noise ratio, a seasonal change, statistical information, time information, day information and data rate information.
3. The system of claim 1, wherein the plurality of margins are at least one of an average margin and a subchannel specific margin.
4. The system of claim 3, wherein the average margin is applied equally to a portion of the plurality of subchannels.
5. The system of claim 1, further comprising a margin determiner that determines at least one margin.
6. The system of claim 1, further comprising a margin storage device that stores at least one margin.
7. A multicarrier modulation communication system comprising:
a plurality of subchannels; and
a plurality of margins, wherein one of the plurality of margins is assigned to at least one of the plurality of subchannels.
8. The system of claim 7, wherein the plurality of margins are based on at least one of changes in the levels of a crosstalk, impulse noise, temperature changes, wire line length, radio frequency interference, a bit error rate, a signal to noise ratio, a seasonal change, statistical information, time information, day information and data rate information.
9. The system of claim 7, wherein the plurality of margins are at least one of an average margin and a subchannel specific margin.
10. The system of claim 9, wherein the average margin is applied equally to a portion of the plurality of subchannels.
11. The system of claim 7, further comprising a margin determiner that determines at least one margin.

12. The system of claim 7, further comprising a margin storage device that stores at least one margin.

13. A multicarrier modulation communication system communicating on a wire line over a plurality of subchannels, wherein at least one margin based on a length of the wire line is assigned to at least one of the plurality of subchannels.

14. The system of claim 13, wherein the at least one margin is based on at least one of changes in the levels of a crosstalk, impulse noise, temperature changes, radio frequency interference, a bit error rate, a signal to noise ratio, a seasonal change, statistical information, time information, day information and data rate information.

15. The system of claim 13, wherein the at least one margin is based on at least one of an average margin and a subchannel specific margin.

16. The system of claim 15, wherein the average margin is applied equally to a portion of the plurality of subchannels.

17. The system of claim 13, further comprising a margin determiner that determines at least one margin.

18. The system of claim 13, further comprising a margin storage device that stores at least one margin.

19. A multicarrier modulation communication system having a plurality of subchannels, wherein at least two subchannels have a different margin.

20. The system of claim 19, wherein the margin is based on at least one of changes in the levels of a crosstalk, impulse noise, temperature changes, wire line length, radio frequency interference, a bit error rate, a signal to noise ratio, a seasonal change, statistical information, time information, day information and data rate information.

21. The system of claim 19, wherein the margins are at least one of an average margin and a subchannel specific margin.

22. The system of claim 21, wherein the average margin is applied equally to a portion of the at least two subchannels.

23. An information storage media comprising margin information for a multicarrier modulation system having a plurality of subchannels, wherein at least two subchannels have a different margin.

24. A method of enhancing multicarrier modulation communication over a plurality of subchannels comprising communicating over the plurality of subchannels using at least two different margins.

25. The method of claim 24, wherein the at least two margins are based on at least one of changes in the levels of a crosstalk, impulse noise, temperature changes, wire line length, radio frequency interference, a bit error rate, a signal to noise ratio, a seasonal change, statistical information, time information, day information and data rate information.

26. The method of claim 24, wherein the at least two margins are at least one of an average margin and a subchannel specific margin.

27. The method of claim 26, wherein the average margin is applied equally to a portion of the plurality of subchannels.

28. The method of claim 24, further comprising determining at least one margin.

29. The method of claim 24, further comprising storing at least one margin.

30. A method for multicarrier modulation communication over a plurality of subchannels comprising:
selecting a first number of the subchannels;
assigning a first margin to the first number of the subchannels;
selecting a second number of the subchannels; and
assigning a second margin to the second number of subchannels, wherein the first margin and the second margin are different.

31. The method of claim 30, wherein the margins are based on at least one of changes in the levels of a crosstalk, impulse noise, temperature changes, wire line length, radio frequency interference, a bit error rate, a signal to noise ratio, a seasonal change, statistical information, time information, day information and data rate information.

32. The method of claim 30, wherein the margins are at least one of an average margin and a subchannel specific margin.

33. The method of claim 32 wherein the average margin is applied equally to a portion of either the first or second number of subchannels.

34. The method of claim 30, further comprising a margin determiner that determines at least one margin.

35. The method of claim 30, further comprising a margin storage device that stores at least one margin.

36. A method for multicarrier modulation communication over a wire line using a plurality of subchannels, wherein at least one margin based on a length of the wire line is assigned to at least one of the plurality of subchannels.

37. The method of claim 36, wherein the at least one margin is based on at least one of changes in the levels of a crosstalk, impulse noise, temperature changes, radio frequency interference, a bit error rate, a signal to noise ratio, a seasonal change, statistical information, time information, day information and data rate information.

38. The method of claim 36, wherein the at least one margin is at least one of an average margin and a subchannel specific margin.

39. The method of claim 38, wherein the average margin is applied equally to a portion of the plurality of subchannels.

40. The method of claim 36, further comprising a margin determiner that determines at least one margin.

41. The method of claim 36, further comprising a margin storage device that stores at least one margin.

42. A method for communicating in a multicarrier modulation communications environment having at least two subchannels, wherein at least two of the at least two subchannels have a different margin.

43. The method of claim 42, wherein the margins are based on at least one of changes in the levels of a crosstalk, impulse noise, temperature changes, wire line length, radio frequency interference, a bit error rate, a signal to noise ratio, a seasonal change, statistical information, time information, day information and data rate information.

44. The method of claim 42, wherein the margins are at least one of an average margin and a subchannel specific margin.

45. The method of claim 42, wherein the average margin is applied equally to a portion of the at least two subchannels.